Standards of Public Land Health Evaluation of 64033 BARN DRAW Allotment [12/06/2006]

The Roswell Field Office conducted (RHA) Rangeland Health Assessments at 3 study sites within Barn Draw, allotment #64033. These assessments evaluated Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of these field assessments. A summary of each assessment is attached and shown in the following table.

Study Area or		UPLAND			BIOTIC		RIPARIAN		
Assessment	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
64033-BERT- E153	X			X			N/A		
64033-DRAW- E152	X	*		X	*		N/A		
64033-WEST- E154	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on Barn Draw, allotment #64033. Ten of these assessed soil site stability; 11 hydrologic function; and 13 biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected on 3 trend plot locations within this allotment were utilized to make rangeland health determinations. Quantitative evaluations are performed by the Roswell Field Office, which include some or all of the following: ground cover, vegetative cover and composition, production, frequency, and ecological condition. These collections which were initiated in the late 1970's/early 1980's are scheduled and conducted approximately every 5 years. The Barn Draw Allotment is approximately 23,053 acres in size. Much of this allotment is private land with some state sections. The western portion of the allotment contains public land that comprises about 1/3 of the allotment. Pasture divisions are not available through GIS data. The BLM parts of the allotment are mostly comprised of Shallow SD-3 or Shallow CP-2 ecosites, although, GIS data shows most of the area as Limestone Hills SD-3. The BLM terrain is mostly rocky and hilly and is gently sloping to moderately sloping (5-30% slope). Elevation within the BLM portion of this allotment ranges from approximately 3950 feet to 4300 feet. This area consists of a series of ridges and valleys that drain to the east. Valley bottoms are likely Loamy SD-3 ecosites that are not represented by the study sites on this allotment. These narrow valley bottoms and the relatively flat Loamy areas to the east (mostly private land) appear to receive the bulk of the grazing and show significant departures from the Loamy SD-3 ESD. The narrow valley bottoms on BLM land are occasionally heavily infested with mesquite. Often, the dominant grass in these areas is burro grass. Roads following the drainages are eroded with active gully formation. Roads (particularly through loamy sites and east of BLM land) are

typically lined with musk thistle. Invasive plants (especially mesquite and musk thistle) are becoming a serious problem on this allotment.

The upland BLM areas represented by the study sites are stable and typically well vegetated with relatively good species diversity. All sites are experiencing an increase in shrub cover. All sites are experiencing a shift in grass composition. Black grama was well represented, but in all cases, threeawns and Tridens were becoming the dominant grasses. No grazing use was observed on any of the study sites; however, past grazing use is obvious within and near the drainages.

The following discussion is a site by site evaluation.

Site 64033-WEST-E154 was visited on May 22, 2007. This study site is within a Shallow SD-3 ecosite. The site is rocky. Slopes range from approximately 4 - 15%. A Loamy drainage bottom is near this site. Soil is relatively stable at this site. All soil indicators rated "slight to moderate" or "none to slight". There was minimal evidence of soil movement or loss. Hydrologic function was near what is expected for the site, but there is an increase in shrubs (mesquite and catclaw (ACGR) and snakeweed). This increase was not judged to be affecting runoff and infiltration at this time. Herbaceous cover was somewhat higher than expected for the ecosite.

Most indicators assessing biotic integrity for the site rated "slight to moderate" or "none to slight". F/S groups rated "moderate" due to the increase in shrubs and the change in the grass community. While there is still good diversity of grasses, the area has shifted to a threeawn / Tridens, grass / shrub mix. Invasive Plants rated "moderate" primarily due to the encroachment of mesquite, but cholla are widely scattered throughout the site, and there is an apparent increase in "increaser" shrubs such as catclaw (ACGR), snakeweed, and prickly pear. Production for the site was high due to good, late summer rains in 2006. This site provides good habitat for mule deer.

Site 64033-BERT-E153 was visited on May 22, 2007. This study site is within a Shallow SD-3 ecosite. The site is very rocky. Slopes range from approximately 3 - 15%. A Loamy drainage bottom is near this site. Soils are relatively stable at this site. All soil indicators rated "slight to moderate" or "none to slight". There was some evidence of soil movement or loss but this was more evident near the drainage. Rills and gullies are rare except for the main drainage with the access road, where active erosion is occurring.

Hydrologic function was rated similarly. Herbaceous ground cover was as expected for the site. There is an increase in shrubs (i.e. catclaw acacia and snakeweed), but not enough to affect runoff and infiltration at this time.

All indicators assessing biotic integrity for the site rated "slight to moderate" or "none to slight". There is an increase in shrub cover and a shift in the composition of grasses. The area has transitioned to a threeawn / Tridens, grass / shrub mix. Production was relatively high (60 - 80% of potential). Invasive plants rated "slight to moderate" due to mesquite being widely scattered. Musk thistle (Carduus nutans) was common along the roads leading to the site. The site provides good habitat for mule deer.

Site 64033-DRAW-E152 was visited on May 22, 2007. This study site is within a Shallow CP-2 ecosite. The site is very rocky. Slopes range from approximately 5 - 30%. A Loamy drainage bottom is near this site. Soils are relatively stable at this site. All soil indicators rated "slight to moderate" or "none to slight". There was some evidence of soil movement or loss but this was more evident near the drainage. Rills and gullies are rare except for the main drainage with the access road, where active erosion is occurring. Hydrologic function was rated similarly. Herbaceous ground cover was near expected for the site. There is a substantial increase in shrubs (i.e. catclaw acacia and snakeweed). This increase is having a minor effect on runoff and infiltration. This effect is likely to increase as shrubs begin to dominate the site.

Most indicators assessing biotic integrity for the site rated "slight to moderate" or "none to slight". There is an increase in shrub cover (approximately 4 times the amount expected) and a shift in the composition of grasses. The area has transitioned to a threeawn / Tridens, grass / shrub mix. Shrubs are beginning to dominate the site. Production was high (> 80% of potential). Invasive plants rated "moderate" due to mesquite being scattered throughout the site, particularly along the drainage and due to the significant increase in catclaw. Musk thistle (Carduus nutans) was common along the roads leading to the site. The site provides good habitat for mule deer

Recommendations: Although not specifically assessed through the study sites, the loamy areas along the drainages are showing a greater departure from ecological site conditions. These areas are also being encroached by mesquite. Desirable grasses are greatly reduced in the composition. In addition to the treatment of mesquite, consider changing the timing, duration and intensity of grazing in these areas. Upland areas show much less departure, but treatment of increasing shrubs such as catclaw will prevent these sites from further transitioning to shrub sites.

Active erosion is occurring in several drainages and is mostly associated with old roads. All the roads within this allotment should be evaluated for this condition and corrective measures taken.

The potential for musk thistle to invade BLM lands is great. Musk thistle has become established along most of the roads passing through the state and private lands of this allotment. Recommend a complete inventory with follow-up treatment.

RFOs Upl	RFOs Upland and Biotic Standard Assessment Summary Worksheet						
	SITE 64033-1	BERT-E153					
Legal Land Desc	SESE 1 0090S 0220E Meridian 23	Acreage	1819				
Ecosite	042CY025NM SHALLOW SD-3	Photo Taken	Y				
Watershed	13060005070 SALT						
Observers	BRITTON; DILLEY	Observation Date	05/22/2007				
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad					
Soil Map Unit	ESD	Soil Taxon Name	ECTOR				

Texture	e Class	NM644 CBX-L			Soil Pha	se ECTOR	-ROC
Texture M		NM644 EXTREMELY COBBLY L					,
	ed Avg Annual sitation				Avg Growin Precipitation	~	
NOAA A	Annual itation	10.5	55	NOAA Gro	owing Seaso Precipitation		8.18
l A	A Avg Annual sitation	9.73 NOAA AV			owing Seaso Precipitation		8.01
Disturbanc Anima	es and al Use:	Inherized in the pasture. A road passes through the site that is washed out					
Part 2. Attr	ibutes	and Indicators					
		Departure from Ecological Site Description/Ecological Reference Ar				ce Areas	
Attribute	Indica	ndicators		Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
SH	Rills					X	
Comments:	Rills a	re associated with the drain	age and p	rimarily the	drainage w	ith the roa	d.
SH	Water	Flow Patterns				X	
Comments:		d areas are stable. Flow patt iinage have much more defi			ble. The bo	ttom areas	near
SH	Pedest	als and/or Terracettes				X	
Comments:	Pedest	alling is minimal on the upl	ands, but	more notice	eable near t	he drainage	e.
SH	Bare C	Fround					X
Comments:	Much	less than expected. There is	lots of su	rface rock.			
SH	Gullie	S				X	
Comments:	Draina	ges are relatively stable exc	cept for th	e drainage	with the roa	ıd.	
S	I	scoured, Blowouts, and/or ition Areas					X
Comments:							
Н	Litter 1	Movement				X	
Comments:	There	is some displacement partic	ularly clo	ser to the d	rainages.		
SHB	Soil Su Erosio	urface Resistance to				X	

Special Status Species Habitat		X
		37
Wildlife Populations	X	
Satisfactory for mule deer.	1	
Wildlife Habitat		X
Evident throughout, but discontinuous.		
Physical/Chemical/Biological Crusts	X	
Desirable grasses made seed in 2006.		
Reproductive Capability of Perennial Plants		X
	•	
Invasive Plants	X	
Estimated to be 60 - 80% of potential. Good late sumn	ner rains in 2006.	
Annual Production	X	
Slightly higher than expected for the site. Estimated to	be 10 - 15%.	
Litter Amount		X
	ıı II	
		X
	nrubs may be increasi	ng
Functional/Structural Groups	X	
-		X
	ver may be increasing	<u> </u>
Plant Community Composition and Distribution Relative to		X
There has been some soil loss. Uplands are relatively sdrainages.	table, but less so near	the
Soil Surface Loss or Degradation	X	
	There has been some soil loss. Uplands are relatively strainages. Plant Community Composition and Distribution Relative to Infiltration and Runoff Herbaceous cover is as expected for the site. Shrub cookies to still structural Groups The site is shifting to a threeawn / tridens grassland. Sl (GUSA and ACGR). BOER is still well represented. Plant Mortality/Decadence Litter Amount Slightly higher than expected for the site. Estimated to Annual Production Estimated to be 60 - 80% of potential. Good late summ Invasive Plants Catclaw and snakeweed are higher than expected and a not on this site, the roads leading to this site (mostly on with musk thistle. Reproductive Capability of Perennial Plants Desirable grasses made seed in 2006. Physical/Chemical/Biological Crusts Evident throughout, but discontinuous. Wildlife Habitat Satisfactory for mule deer. Wildlife Populations Special Status Species Habitat	There has been some soil loss. Uplands are relatively stable, but less so near drainages. Plant Community Composition and Distribution Relative to Infiltration and Runoff Herbaceous cover is as expected for the site. Shrub cover may be increasing Compaction Layer Functional/Structural Groups X The site is shifting to a threeawn / tridens grassland. Shrubs may be increasi (GUSA and ACGR). BOER is still well represented. Plant Mortality/Decadence Litter Amount Slightly higher than expected for the site. Estimated to be 10 - 15%. Annual Production X Estimated to be 60 - 80% of potential. Good late summer rains in 2006. Invasive Plants Catclaw and snakeweed are higher than expected and are likely increasing, not on this site, the roads leading to this site (mostly on private land) are inf with musk thistle. Reproductive Capability of Perennial Plants Desirable grasses made seed in 2006. Physical/Chemical/Biological Crusts Evident throughout, but discontinuous. Wildlife Habitat Satisfactory for mule deer. Wildlife Populations X Special Status Species Habitat

	Populations			
Comments:	N/A			

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	7	3
Н	Hydrologic	0	0	0	7	4
В	Biotic	0	0	0	6	7

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	Soils are stable with little evidence of erosion except along nearby drainages. Site has a lot of surface rock that lends stability to the site.	0	0	10
Hydrologic		0	0	11
Biotic	The site has transitioned to a threeawn / tridens grassland, but black grama is still well represented. Catclaw and snakeweed are increasing but are not dominant on the site.	0	0	13

Site Notes: Soils are relatively stable. There is a lot of surface rock lending stability to the site. Some erosion is occurring along the nearby drainage and is associated with the road leading to this site. There are washed out places along the road. Species diversity is relatively good. Black grama is still well represented in the composition. There appears to be an increase in catclaw and snakeweed over what is expected for the site. Mesquite is common along the drainages. Musk thistle has infested the road sides of many of the roads leading to the site.

Plants encountered included:

shrubs: PRGL, ACGR (catclaw), GUSA, GUMI, DAFO, NOLINA, OPUNT (prickly pear),

eagleclaw cactus, pencil cholla, rainbow hedgehog, RHMI forbs: verbena, Zinnia spp., ERIOG, croton, Polygala alba, Krameria spp. grasses: BOER, BOGR2, SCBR, TRMU, TRPI, SPCR, PAHA, ERPU, ARIST, ARPU, STCO

RFO	RFOs Upland and Biotic Standard Assessment Summary Worksheet							
		SITE 64033	3-DR	AW	'-E152			
Legal	Land Desc	NENE 19 0090S 0230E Meridian 23	Ξ			Acreage	1350	
	Ecosite	070BY075NM SHALLOW CP-2		Photo Taken		Y		
	Watershed	13060008130 BERRENDO						
	Observers	BRITTON; DILLEY			Obser	vation Date	05/22/200)7
County S	oil Survey	NM644 CHAVES NORTH			Soi	l Var/Taxac		
Soi	l Map Unit	CRB			Soil T	`axon Name	CONGER	1
Tex	xture Class	NM644 L		Soil Phase		CONGER REAGAN		
Textur	e Modifier	NM644 LOAM						
Observed A Pr	vg Annual eccipitation			Observed Avg Growing Season Precipitation		1		
	AA Annual ecipitation	10.	.55	N		ving Seasor Precipitation		8.18
	vg Annual ecipitation	9	.73			vg Growing Precipitation	111	8.01
				nity of the study plot. An old road passes oamy area, and is eroded.				
Part 2. Attr	ibutes and	Indicators						
					e from Ecol on/Ecologic	ogical Site	ce Areas	
Attribute	Indicators		Extre	eme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
SH	Rills							
Comments:		s on this site, but rills occur on the adjacent loamy areas near the drainage and mostly associated with the road.						
SH	Water Flow	w Patterns	Patterns X					
Comments: Flow patterns on this upland area are short and stable. Flow patterns in the adjacent loamy, bottom areas are more defined.					acent			

SH	Pedestals and/or Terracettes					X				
Comments:	Very minimal on this Shallow site.	but more	prevalent of	on the adjac	ent loamy	site.				
SH	Bare Ground					X				
Comments:	Much less than expected on this Sl	nallow sit	e. There is l	ots of surfac	ce cobble.					
SH	Gullies				X					
Comments:	None on this Shallow site, but gull association with the access road.	one on this Shallow site, but gullies are forming on the adjacent loamy areas in sociation with the access road.								
S	Wind-scoured, Blowouts, and/or Deposition Areas					X				
Comments:										
Н	Litter Movement				X					
Comments:	Very little movement on this Shall the adjacent loamy areas.	ow site. L	itter displac	cement is m	ore evident	on				
SHB	Soil Surface Resistance to Erosion									
Comments:										
SHB	Soil Surface Loss or Degradation					X				
Comments:	Good aggregate stability on this Sh	nallow site	e, but less so	o on the adj	acent loam	y site.				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X					
Comments:	Herbaceous ground cover is as exp shrubs (mostly ACGR) that could loamy site would rate moderate to	be affecti	ng runoff ar	nd infiltratio						
S H B	Compaction Layer					X				
Comments:		'								
В	Functional/Structural Groups				X					
Comments:	There has been a shift in grass congrasses. BOER is still well represe and are higher than expected. The extreme or extreme. Mesquite dominant grass.	nted. Shruadjacent l	ubs (GUSA oamy site w	and ACGR ould likely) are increa rate moder	sing ate to				
В	Plant Mortality/Decadence					X				
Comments:										
Н В	Litter Amount				X					
Comments:	Within expected range. Estimated	to be abou	ut 10%.							
В	Annual Production					X				

В	Invasive Plants			X						
Comments:	mesquite on this Shallow site. Mes	ACGR has increased beyond the site expectations. There is widely scattered mesquite on this Shallow site. Mesquite is common to dominant on the adjacent loamy site. Creosote bush is encroaching on the loamy site.								
В	Reproductive Capability of Perennial Plants					X				
Comments:	II -	On this Shallow site, desirable grasses produced seed in 2006. This is not true for the adjacent loamy site where grazing pressures have all but eliminated desirable forage plants.								
S	Physical/Chemical/Biological Crusts				X					
Comments:	On this Shallow site, crusts are evident throughout but are discontinuous. On the adjacent loamy site, biotic crusts are mostly absent.									
В	Wildlife Habitat				X					
Comments:	This area remains satisfactory habitelief to be antelope habitat.	itat for mu	ıle deer. It l	nas too muc	h topograpl	nic				
В	Wildlife Populations				X					
Comments:										
В	Special Status Species Habitat					X				
Comments:	N/A									
В	Special Status Species Populations					X				
Comments:	N/A									
Part 3. Sun	ı ımarv									

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	3	5
Н	Hydrologic	0	0	0	5	4
В	Biotic	0	0	1	4	7

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate

box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	This rationale is strictly for the Shallow site. Soils are relatively stable. There is a lot of surface rock that lends stability to the site.	0	0	8
Hydrologic		0	0	9
Biotic	This rationale is strictly for the Shallow site. Production is good. Species diversity is good, but the area is now dominated by threeawns and tridens. Black grama is still well represented. There is an increase in catclaw acacia and snakeweed. Mesquite is encroaching.	0	1	11

Site Notes: Soils are relatively stable on this Shallow site. There is a lot of surface rock that lends stability to the site. Production is good. The area has relatively good species diversity, but there has been a shift in grass composition. Threeawns and tridens are the dominant grasses. Black grama is still well represented in the composition. There is an increase in catclaw acacia and snakeweed over what is expected for this site. Mesquite are invading the site.

The adjacent bottom, loamy area is quite different and has several areas of significant departure from expected conditions. Rills and gullies are forming, mostly in association with an old road. Mesquite has invaded and is common to dominant throughout the drainage areas. Burro grass is the dominant grass. This area appears degraded.

Plants encountered included: shrubs: ACGR, GUSA2, RHMI, PRGL, pencil cholla, prickly pear, cholla forbs: croton, suncups, Gilia spp., Cryptantha spp. grasses: BOER, BOGR2, ARIST, SCBR, BOCU, STCO, HIMU

RFOs Upland and Biotic Standard Assessment Summary Worksheet							
SITE 64033-WEST-E154							
Legal Land Desc	NESW 24 0090S 0220E Meridian 23	Acreage	1937				
Ecosite	042CY025NM SHALLOW SD-3	Photo Taken	Y				
Watershed	13060008130 BERRENDO						
Observers	BRITTON; DILLEY	Observation Date	05/22/2007				
County Soil Survey	NM644 CHAVES NORTH	Soil Var/Taxad					
Soil Map Unit	URB	Soil Taxon Name	UPTON				
Texture Class	NM644 GR-L	Soil Phase	UPTON-				

							REAKC)R	
Text	ure Modifier	NM644							
Observed Avg Annual						Avg Growi	-		
Precipitation					Season	Precipitation	on		
NOAA Annual Precipitation		1	10.55		NOAA Growing Season Precipitation				
NOAA Avg Annual				NOAA Avg Growing					
Precipitation Precipitation			9.73	Season Precipitation		• II	8.01		
		No livestock in the vithrough the site.	cinity. I	No	use observ	ed. An old	road passes	S	
Part 2. Attr	ibutes and l	Indicators							
			_			ogical Site	ce Areas		
Attribute	Indicators		Extrem	ne	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	
S H	Rills							X	
Comments:	No rills. Ve	ry rocky.							
SH	Water Flow	Patterns					X		
Comments:	Flow pattern	ns are short and stable.	They a	ıre	more notal	ole in draina	ige areas.		
SH	Pedestals an	nd/or Terracettes						X	
Comments:	Very rare. S	ite is stable.							
SH	Bare Groun	d						X	
Comments:	Well below	expected. Lots of surf	ace rocl	k, c	cobble, grav	vel.			
SH	Gullies						X		
Comments:	Slight gully	formation in drainage	s related	d to	old road.				
S	Wind-scour Deposition	ed, Blowouts, and/or Areas						X	
Comments:									
H	Litter Move	ment						X	
Comments:	Litter is eve	nly distributed. Less s	o near d	lrai	nage areas	•			
S H B	Soil Surface Erosion	e Resistance to						X	
Comments:		ate stability was mode There is very little pede			e amount o	of surface ro	ock lends st	ability	
SHB	Soil Surface	Loss or Degradation						X	
Comments:	There appea	ers to be very little soil	loss. T	he	drainage b	ottom with	the road is	the	

	exception.				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X
Comments:	Shrubs (ie mesquite) are increasinaffected.	ng but not to the p	point that runoff	and infiltr	ation is
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Shrubs (mesquite, catclaw, snake is associated with the loamy botto threeawns are becoming the dom in the compostion.	om area, not this	shallow site. Tri	dens and	
В	Plant Mortality/Decadence				X
Comments:					
Н В	Litter Amount				X
Comments:	Slightly higher than expected.				
В	Annual Production				X
Comments:	>80% of potential. Good late sun	nmer rains in 200	6.		
В	Invasive Plants		X		
Comments:	Trending toward moderate to extraould be regarded as common in GUSA is more abundant that exp	places. Cholla is	widely scattered	throughou	ut.
В	Reproductive Capability of Perennial Plants				
					X
Comments:	Desireable grasses produced seed	l in 2006.			
	Desireable grasses produced seed Physical/Chemical/Biological Crusts	l in 2006.		X	
S	Physical/Chemical/Biological			X	
S Comments:	Physical/Chemical/Biological Crusts			X	
S Comments:	Physical/Chemical/Biological Crusts Evident throughout, but not conti			X	X
S Comments:	Physical/Chemical/Biological Crusts Evident throughout, but not conti Wildlife Habitat			X	X
S Comments: B Comments:	Physical/Chemical/Biological Crusts Evident throughout, but not conti Wildlife Habitat Satisfactory for mule deer.				X
S Comments: B Comments: B	Physical/Chemical/Biological Crusts Evident throughout, but not conti Wildlife Habitat Satisfactory for mule deer.				X
S Comments: B Comments: B Comments:	Physical/Chemical/Biological Crusts Evident throughout, but not conti Wildlife Habitat Satisfactory for mule deer. Wildlife Populations				X
S Comments: B Comments: B Comments: B	Physical/Chemical/Biological Crusts Evident throughout, but not conti Wildlife Habitat Satisfactory for mule deer. Wildlife Populations Special Status Species Habitat				X

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	3	7
Н	Hydrologic	0	0	0	2	9
В	Biotic	0	0	2	1	10

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil	Soils are very stable on this Shallow CP-2. There is very little evidence of erosion. Soils are less stable on the adjacent loamy area with the drainage.	0	0	10
Hydrologic		0	0	11
Biotic	Production is high. Species diversity is good. The area is transitioning to a grass/shrub mix. Shrubs are increasing. Mesquite is invading. Tridens and threeawns are becoming the dominant grasses. Black grama is still well represented.	0	2	11

Site Notes: Soils on this Shallow CP-2 site are very stable with little evidence of erosion. The adjacent drainage area (loamy) is less stable and has evidence of rill and gully formation in association with an old road. Production was good. Species diversity is relatively good, but the area is transitioning to a grass/shrub mix. Tridens and threeawns are becoming the dominant grasses. Black grama is still well represented in the composition. Shrubs are increasing including mesquite, catclaw acacia, snakeweed, prickly pear. Consequently, invasive plants and F/S groups rated moderate.

Plants encountered included: shrubs: PRGL, RHMI, NOLINA, prickly pear, cholla, ACGR, MIAC, GUSA2, bricklebush, DAFO grasses: BOER, BOGR2, ARDI, ARIST, TRMU, TRPI, LEDU, BOCU, HIMU

Determination of Public Land (Rangeland) Health for 64033 BARN DRAW

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on these assessments, it is my determination that public land within Barn Draw allotment #64033, meets the (1) Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are some concerns with the loamy draws where erosion and invasive plants appear to be increasing. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ EDDIE BATESON
Assistant Field Manager

08/24/2007

Date